

## Pengaruh temperatur , waktu oksidasi dan konsentrasi ZrO<sub>2</sub> terhadap densitas, luas permukaan dan rasio O/U hasil reduksi (U<sub>3</sub> O<sub>8</sub> + ZrO<sub>2</sub>)

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### Abstrak

Influence of oxidation temperature and time and ZrO<sub>2</sub> concentration on density, surface area and O/U ratio of (U<sub>3</sub>O<sub>8</sub>+ZrO<sub>2</sub>) reduction product. Reduction process of uranium oxide and zirconium oxide (U<sub>3</sub>O<sub>8</sub>+ZrO<sub>2</sub>) by hydrogen gas at temperature of 850 oC for 2 hours in reduction furnace has been carried out. The material was obtained from oxidation product of (UO<sub>2</sub> + ZrO<sub>2</sub>) pellet became (U<sub>3</sub>O<sub>8</sub>+ZrO) powder at temperature of 400oC and 500oC for 0.5 - 2 hours with variation of ZrO<sub>2</sub> concentration from 0-0.6%....